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- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
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- IBM Technical Disclosure Bulletins

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Clear
Interrupt

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DATE: Tuesday, January 18, 2005 [Printable Copy](#) [Create Case](#)

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
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<u>L4</u>	707.clas.	24557	<u>L4</u>
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L1: Entry 1 of 2

File: USPT

Oct 7, 2003

US-PAT-NO: 6631397

DOCUMENT-IDENTIFIER: US 6631397 B1

** See image for Certificate of Correction **

TITLE: Information registration method, information management method, information registration apparatus, information management apparatus, and storage medium

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satomi; Hiroshi	Yokohama			JP
Masukawa; Akihiro	Kawasaki			JP
Kasai; Kenji	Tokyo			JP
Fukunaga; Shinji	Kawasaki			JP
Inoue; Atsushi	Tokyo			JP
Ito; Kosuke	Tokyo			JP
Izumi; Jiro	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 547317 [PALM]

DATE FILED: April 11, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-107140	April 14, 1999

INT-CL: [07] G06 F 15/16

US-CL-ISSUED: 709/203, 709/246, 714/49

US-CL-CURRENT: 709/203, 709/246, 714/49

FIELD-OF-SEARCH: 709/201, 709/203, 709/224, 709/225, 709/246, 709/217, 707/10, 707/104, 714/4, 714/21, 714/49

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

[Search Selected](#) [Search ALL](#) [Clear](#)

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L2: Entry 1 of 2

File: USPT

Jun 8, 2004

US-PAT-NO: 6747755

DOCUMENT-IDENTIFIER: US 6747755 B1

TITLE: Code generation method, terminal apparatus, code processing method, issuing apparatus, and code issuing method

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satomi; Hiroshi	Yokohama			JP
Masukawa; Akihiro	Kawasaki			JP
Kasai; Kenji	Tokyo			JP
Fukunaga; Shinji	Kawasaki			JP
Inoue; Atsushi	Tokyo			JP
Ito; Kosuke	Tokyo			JP
Izumi; Jiro	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 547399 [PALM]

DATE FILED: April 11, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-283461	April 10, 1999
JP	11-107236	April 14, 1999

INT-CL: [07] G06 K 15/00

US-CL-ISSUED: 358/1.15; 358/1.6

US-CL-CURRENT: 358/1.15; 358/1.6

FIELD-OF-SEARCH: 358/1.15, 358/1.6, 358/1.13, 358/1.14, 358/402, 358/403, 358/405, 358/440, 358/442, 709/217, 709/218, 709/219, 709/378, 710/8, 710/9, 710/10, 710/11, 710/20, 710/62, 710/64

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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L24: Entry 51 of 76

File: USPT

Oct 22, 2002

US-PAT-NO: 6470383

DOCUMENT-IDENTIFIER: US 6470383 B1

TITLE: System and methods for generating and displaying web site usage data

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leshem; Eran	Gan Shomron			IL
Weinberg; Amir	Zoran			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 09/ 177222 [PALM]

DATE FILED: October 22, 1998

PARENT-CASE:

PRIORITY CLAIM This application is a division of U.S. application Ser. No. 08/840,103 filed Apr. 11, 1997, now U.S. Pat. No. 5,870,559 which claims the benefit of U.S. Provisional Application No. 60/028,474 filed Oct. 15, 1996, which is hereby incorporated by reference.

INT-CL: [07] G06 F 15/57, G06 F 13/38

US-CL-ISSUED: 709/223; 709/224

US-CL-CURRENT: 709/223; 709/224

FIELD-OF-SEARCH: 709/217, 709/223, 709/224, 709/218, 709/238, 707/501, 345/329, 345/349, 345/356, 345/357, 345/440, 345/581, 345/606, 345/706, 345/733, 345/734, 345/736, 345/737, 345/738, 345/783, 345/753

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<input type="checkbox"/> <u>5388255</u>	February 1995	Pytlik et al.	
<input type="checkbox"/> <u>5515488</u>	May 1996	Hoppe et al.	

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<input type="checkbox"/> <u>5524202</u>	June 1996	Yokohama	
<input type="checkbox"/> <u>5544310</u>	August 1996	Forman et al.	
<input type="checkbox"/> <u>5546529</u>	August 1996	Bowers et al.	
<input type="checkbox"/> <u>5590250</u>	December 1996	Lamping et al.	
<input type="checkbox"/> <u>5615325</u>	March 1997	Peden	395/326
<input type="checkbox"/> <u>5619632</u>	April 1997	Lamping et al.	345/441
<input type="checkbox"/> <u>5675510</u>	October 1997	Coffey et al.	364/514A
<input type="checkbox"/> <u>5712981</u>	January 1998	McKee et al.	709/241
<input type="checkbox"/> <u>5751965</u>	May 1998	Mayo et al.	709/224
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<input type="checkbox"/> <u>5910803</u>	June 1999	Grau et al.	345/357
<input type="checkbox"/> <u>5923328</u>	July 1999	Griesmer	345/357
<input type="checkbox"/> <u>5937163</u>	August 1999	Lee et al.	709/218
<input type="checkbox"/> <u>6035330</u>	March 2000	Astiz et al.	709/218
<input type="checkbox"/> <u>6189019</u>	February 2001	Blumer et al.	707/513

OTHER PUBLICATIONS

Scullin et al., "Real-Time Visualization of World Wide Web Traffic", 1995, University of Illinois, 13 pages.*
Lin, "Searching and Browsing on Map Displays", University of Kentucky, 15 pages.*
Doemel, "WebMap", WWW Conference, 1994, 18 pages.*
Superimpose and network management in 1995 search report, Google search engine, 2 page.*
Article titled: "Virtual Office endorses In-house tracking," Interactive Age, vol. 2, No. 22, p. 18, Aug. 28, 1995.
"Getting Started" Manual for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.
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Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.
Document titled "Incontext Announces Webanalyizer for Windows 95", dated Feb. 15, 1996.
Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.
Press release titled "Mercury Interactive Makes Stress Testing a Web Site Simple and Affordable: Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.
Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool: Mercury Interactive's Astra. Instantly Pinpoints Problems

and Displays User-Behavior Patterns for Higher Quality Web Sites", dated Oct. 9, 1996. 1996.

Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers: Mercury Interactive Announces Astra. Industry's First. Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.

Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.

Product brochure for Astra SiteManager, dated 1997.

Product brochure for net.Analysis product of net.Genisis (undated).

Product brochure for CyberPilot Pro Product of NetsCarta (undated).

Article entitled "Web site management betas show major advances", dated Nov. 11, 1996 in PC Week.

Original CD-ROM, dated 1996 for InContext WebAnalyzer 1.0 product.

Original CD-ROM (undated) for NetCarta WebMapper 1.0 product.

Product Brochure For Graph Layout Toolkit from Tom Sawyer Software. 8 pages (undated).

Discovering Web Access Patterns and Trends by Applying OLAP and Data Mining Technology on Web Logs. Zaiane. Xin and Han. Proceedings of the IEEE Forum on Research and Technology Advances in Digital Libraries (IEEE ADL 98). p. 19-29 (1998).

Tree Visualization with Tree-Maps: 2-d Space Filling Approach. Shneiderman, Ben. ACM Transactions on Graphics vol. 11, No. 1, Jan. 1992. pp. 92-99.

Munzner, T. and Burchard, P., "Visualizing the Structure of the World Wide Web in 3D Hyperbolic Space," dated Jun. 9, 1997.

ART-UNIT: 2152

PRIMARY-EXAMINER: Harrell; Robert B.

ASSISTANT-EXAMINER: Jaroenchonwanit; Bunjob

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

57 Claims, 24 Drawing figures

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L24: Entry 66 of 76

File: USPT

Nov 7, 2000

US-PAT-NO: 6144962

DOCUMENT-IDENTIFIER: US 6144962 A

TITLE: Visualization of web sites and hierarchical data structures

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Amir	Zoran			IL
Pogrebinsky; Michael	Herzliya			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 08/ 843265 [PALM]

DATE FILED: April 11, 1997

PARENT-CASE:

PRIORITY CLAIM This application claims the benefit of U.S. Provisional Application No. 60/028,474 titled SOFTWARE SYSTEM AND ASSOCIATED METHODS FOR FACILITATING THE ANALYSIS AND MANAGEMENT OF WEB SITES, filed Oct. 15, 1996, which is hereby incorporated by reference. MICROFICHE APPENDIX This specification includes a microfiche appendix consisting of 1 sheet with 45 frames) which contains a partial source code listing and an API (application program interface) listing of a preferred embodiment of the invention, as Appendices A and B, respectively. These materials form part of the disclosure of the specification.

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/10; 707/104, 345/356, 345/357

US-CL-CURRENT: 707/10; 707/104.1, 715/749, 715/760

FIELD-OF-SEARCH: 707/10, 707/104, 395/200.48, 395/200.49, 395/200.54, 345/356, 345/357

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<input type="checkbox"/>	<u>5388255</u>	February 1995	Pytlik et al.	
<input type="checkbox"/>	<u>5515488</u>	May 1996	Hoppe et al.	
<input type="checkbox"/>	<u>5524202</u>	June 1996	Yokohama	
<input type="checkbox"/>	<u>5544310</u>	August 1996	Forman et al.	
<input type="checkbox"/>	<u>5546529</u>	August 1996	Bowers et al.	
<input type="checkbox"/>	<u>5590250</u>	December 1996	Lamping et al.	
<input type="checkbox"/>	<u>5619632</u>	April 1997	Lamping et al.	395/141
<input type="checkbox"/>	<u>5870559</u>	February 1999	Lesham et al.	395/200.54

OTHER PUBLICATIONS

Discovering Web Access Patterns and Trends by Applying OLAP and Data Mining Technology on Web Logs, Zaiane, Xim and Han, Proceedings of the IEEE Forum on Research and Technology Advances in Digital Libraries (IEEE ADL '98), pp. 19-29 (1998).

Tree Visualization with Tree-Maps: 2-d Space-Filling Approach, Shneiderman, Ben, ACM Transactions on Graphics vol. 11, No. 1, Jan. 1992, pp. 92-99.

Product Brochure For Graph Layout Toolkit from Tom Sawyer Software, 8 pages (undated).

"Getting Started" Manual for Netcarta WebMapper 1.0 for Windows NT/95, dated 1996. User's Guide for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.

Product packaging (front and back) for NetCarta WebMapper 1.0, dated 1996.

"Getting Started" Guide for InContext WebAnalyzer 1.0, dated 1996.

Print-out of online help manual for InContext WebAnalyzer 1.0 product (taken from CD-ROM dated 1996).

Product packaging (front and back) for InContext WebAnalyzer 1.0, dated 1996.

Article titled "Top Tools to Manage your Web Site," Netguide Magazine, Apr., 1997. Selected documents from Microsoft.com Web site describing Microsoft FrontPage 1.1, downloaded and printed on Oct. 8, 1996 (5 printed pgs.).

Document titled "XSoft Licenses Information Visualization Technology to NetCarta Corp.", dated Sep. 17, 1996, printed from NetCarta.com Website.

Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.

Document titled "Incontext Announces Webanalyizer for Windows 95", dated Feb. 15, 1996.

Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.

Press release titled "Mercury Interactive Make Stress Testing a Web Site Simple and Affordable; Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.

Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool; Mercury Interactive's Astra Instantly Pinpoints Problems and Displays User-Behavior Patterns for Higher Quality Web Sites", dated Oct. 9, 1996.

Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers; Mercury Interactive Announces Astra--Industry's First, Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.

Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.

Product brochure for Astra SiteManager, dated 1997.

Product brochure for net.Analysis product of net.Genisis (undated).

Product brochure for CyberPilot Pro Product of NetsCarta (undated).

Article entitled "Web site management betas show major advances," dated Nov. 11, 1996 in PC Week.

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

67 Claims, 24 Drawing figures

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L24: Entry 69 of 76

File: USPT

Sep 28, 1999

US-PAT-NO: 5958008

DOCUMENT-IDENTIFIER: US 5958008 A

TITLE: Software system and associated methods for scanning and mapping dynamically-generated web documents

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pogrebinsky; Michael	Herzliya			IL
Weinberg; Amir	Zoran			IL

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mercury Interactive Corporation	Sunnyvale	CA			02

APPL-NO: 08/ 837012 [PALM]

DATE FILED: April 11, 1997

PARENT-CASE:

PRIORITY CLAIM This application claims the benefit of U.S. Provisional Application No. 60/028,474 titled SOFTWARE SYSTEM AND ASSOCIATED METHODS FOR FACILITATING THE ANALYSIS AND MANAGEMENT OF WEB SITES, filed Oct. 15, 1996, which is hereby incorporated by reference.

INT-CL: [06] G06 F 13/00

US-CL-ISSUED: 709/223; 709/224

US-CL-CURRENT: 709/223; 709/224

FIELD-OF-SEARCH: 709/217-226

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5295261</u>	March 1994	Simonetti	707/2
<input type="checkbox"/> <u>5388255</u>	February 1995	Pytlik et al.	707/4
<input type="checkbox"/> <u>5515488</u>	May 1996	Hoppe et al.	345/440

<input type="checkbox"/>	<u>5524202</u>	June 1996	Yokohama	707/104
<input type="checkbox"/>	<u>5544310</u>	August 1996	Forman et al.	714/31
<input type="checkbox"/>	<u>5546529</u>	August 1996	Bowers et al.	345/348
<input type="checkbox"/>	<u>5590250</u>	December 1996	Lamping et al.	345/427
<input type="checkbox"/>	<u>5657438</u>	August 1997	Wygodny et al.	395/701

OTHER PUBLICATIONS

Product Brochure For Graph Layout Toolkit from Tom Sawyer Software, 8 pages (undated).

"Getting Started" Manual for Netcarta WebMapper 1.0 for Windows NT/95, dated 1996. User's Guide for NetCarta WebMapper 1.0 for Windows NT/95, dated 1996.

Product packaging (front and back) for NetCarta WebMapper 1.0, dated 1996.

"Getting Started" Guide for InContext WebAnalyzer 1.0, dated 1996.

Print-out of online help manual for InContext WebAnalyzer 1.0 product (taken from CD-ROM dated 1996).

Product packaging (front and back) for InContext WebAnalyzer 1.0, dated 1996.

Article titled "Top Tools to Manage your Web Site," Netguide Magazine, Apr., 1997.

Selected documents from Microsoft.com Web site describing Microsoft FrontPage 1.1, downloaded and printed on Oct. 8, 1996 (5 printed pgs.).

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Press release titled "Ararat Software Announces Availability of Inwebstigator 1.0", dated Sep. 23, 1996, printed from Ararat.com Website.

Document titled "Incontext Announces Webanalyizer for Windows 95", dated Feb. 15, 1996.

Press release titled "Mercury Interactive Announces Industry's First Testing Technology for the Web", dated Jan. 1, 1996.

Press release titled "Mercury Interactive Makes Stress Testing a Web Site Simple and Affordable; Astra SiteTest Generates over 4 Million Hits Using a Single Windows 95 or NT Work Station", dated Dec. 9, 1996.

Press release titled "Out-of-Control Web Sites Made More Effective, Profitable with New Web Management Tool; Mercury Interactive's Astra Instantly Pinpoints Problems and Displays User-Behavior Patterns for Higher Qulity Web Sites", dated Oct. 9, 1996.

Press release titled "Tool For Webmasters Provides Open API For Java, C++ and Visual Basic Developers; Mercury Interactive Announces Astra -- Industry's First, Comprehensive, Graphical Web Management Tool", dated Oct. 9, 1996.

Press release titled "Webmasters Eager for Site Management Solutions Rally Around New Web Management Tool; Mercury Interactive Ships Astra SiteManager, Developers Begin Leveraging Open API", dated Dec. 9, 1996.

Product brochure for Astra SiteManager, dated 1997.

Product brochure for net.Analysis product of net.Genisis (undated).

Product brochure for CyberPilot Pro Product of NetsCarta (undated).

Article entitled "Web site management betas show major advances," dated Nov. 11, 1996 in PC Week.

ART-UNIT: 278

PRIMARY-EXAMINER: Maung; Zarni

ASSISTANT-EXAMINER: Ovedovitz; David

ATTY-AGENT-FIRM: Knobbe, Martens, Olson & Bear, LLP

ABSTRACT:

A visual Web site analysis program, implemented as a collection of software components, provides a variety of features for facilitating the analysis and management of Web sites and Web site content. A mapping component scans a Web site over a network connection and builds a site map which graphically depicts the URLs and links of the site. Site maps are generated using a unique layout and display methodology which allows the user to visualize the overall architecture of the Web site. Various map navigation and URL filtering features are provided to facilitate the task of identifying and repairing common Web site problems, such as links to missing URLs. A dynamic page scan feature enables the user to include dynamically-generated Web pages within the site map by capturing the output of a standard Web browser when a form is submitted by the user, and then automatically resubmitting this output during subsequent mappings of the site. The Web site analysis program is implemented using an extensible architecture which includes an API that allows plug-in applications to manipulate the display of the site map. Various plug-ins are provided which utilize the API to extend the functionality of the analysis program, including an action tracking plug-in which detects user activity and behavioral data (link activity levels, common site entry and exit points, etc.) from server log files and then superimposes such data onto the site map.

39 Claims, 24 Drawing figures

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L24: Entry 74 of 76

File: USPT

May 25, 1999

US-PAT-NO: 5907835

DOCUMENT-IDENTIFIER: US 5907835 A

**** See image for Certificate of Correction ****

TITLE: Electronic filing system using different application program for processing drawing commands for printing

DATE-ISSUED: May 25, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokomizo; Yoshikazu	Yokohama			JP
Sugiura; Susumu	Atsugi			JP
Sugiyama; Mitsumasa	Kawasaki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 08/ 560496 [PALM]

DATE FILED: November 17, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	6-285260	November 18, 1994
JP	6-299630	December 2, 1994
JP	6-300445	December 5, 1994
JP	7-034252	January 31, 1995

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US-CL-ISSUED: 707/1; 707/200

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FIELD-OF-SEARCH: 395/600, 395/601, 358/403, 358/445, 382/232, 382/239, 382/56

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/>	<u>4797945</u>	January 1989	Suzuki et al.	382/56
<input type="checkbox"/>	<u>4885704</u>	December 1989	Takagi et al.	364/521
<input type="checkbox"/>	<u>4943868</u>	July 1990	Yoshinaga et al.	358/403
<input type="checkbox"/>	<u>5099340</u>	March 1992	Kamada et al.	358/403
<input type="checkbox"/>	<u>5187592</u>	February 1993	Sugiyama et al.	358/430
<input type="checkbox"/>	<u>5231482</u>	July 1993	Murakami et al.	358/75
<input type="checkbox"/>	<u>5251020</u>	October 1993	Sugiyama	358/500
<input type="checkbox"/>	<u>5255104</u>	October 1993	Ogawa	358/445
<input type="checkbox"/>	<u>5283667</u>	February 1994	Kojima et al.	358/462
<input type="checkbox"/>	<u>5321831</u>	June 1994	Hirose	707/10
<input type="checkbox"/>	<u>5339169</u>	August 1994	Meguro et al.	358/403
<input type="checkbox"/>	<u>5363504</u>	November 1994	Hasuo	395/600
<input type="checkbox"/>	<u>5404479</u>	April 1995	Yamamoto	395/425
<input type="checkbox"/>	<u>5422735</u>	June 1995	Ogawa	358/456
<input type="checkbox"/>	<u>5428727</u>	June 1995	Kurosu et al.	395/147
<input type="checkbox"/>	<u>5432614</u>	July 1995	Yamamoto	358/403
<input type="checkbox"/>	<u>5434684</u>	July 1995	Sugiyama	358/527
<input type="checkbox"/>	<u>5461682</u>	October 1995	Nomura	382/232
<input type="checkbox"/>	<u>5517583</u>	May 1996	Horiuchi et al.	382/239
<input type="checkbox"/>	<u>5535013</u>	July 1996	Murata	358/432
<input type="checkbox"/>	<u>5555322</u>	September 1996	Terai et al.	382/232
<input type="checkbox"/>	<u>5555362</u>	September 1996	Yamashita et al.	395/145
<input type="checkbox"/>	<u>5572726</u>	November 1996	Hasuo	707/200
<input type="checkbox"/>	<u>5581752</u>	December 1996	Inoue et al.	707/1
<input type="checkbox"/>	<u>5602983</u>	February 1997	Naba et al.	395/501
<input type="checkbox"/>	<u>5608858</u>	March 1997	Kurosu et al.	395/763
<input type="checkbox"/>	<u>5649188</u>	July 1997	Nomura et al.	707/100

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Coby; Frantz

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper & Scinto

ABSTRACT:

There is disclosed an electronic filing apparatus which allows to handle files, prepared by different application programs, as the files common to these programs in easy and inexpensive manner. The drawing information, transmitted from each

application program activatable by the computer system, is converted into a predetermined print data format, defined by the operating system, by the printer driver. Then the QuickDraw-common document conversion device converts the print data, converted into the predetermined print data format, into the common document file format which can be directly referred to by the plural application programs, and the common document in thus converted common document file format is stored in the data base.

89 Claims, 43 Drawing figures

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